

This listing of claims replaces all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (Currently amended) A method of using a managed network and a video cable system operated by a cable system provider to deliver video data on-demand from video servers operated by a content provider to a cable system user comprising:

~~providing a listing of video data that is available from said content provider for selection by said cable system user;~~generating a request for a listing of video programs available from said video servers operated by said content provider, that are not part of said cable system operated by said cable system provider, said request being transmitted from a set top box operated by said cable system user, through said cable system to an internet service provider, that is connected through a managed network to said content provider, without going through a head end of said video cable system;

providing said listing of said video programs that is available from said content provider to said cable system user, said listing being transmitted from said content provider through said managed network, said internet service provider and said cable system to said cable system user without going through said head end;

generating a request for said video data from said listing of video programs using said set top box, said request being transmitted from said set top box through said cable to said internet service provider and said managed network without going through said head end;

using a first transport mechanism that is compatible with said managed network to transmit said video data from said video servers through said managed network with a guaranteed quality of service that is sufficient to view said video data without storing said video data at said head end, said video data being transmitted to a cable system provider in response to a said request by said cable system user of said video data;

converting said first transport mechanism to a second transport mechanism that is compatible with said video cable system at said head end;

transmitting said video data from said head end to said user through said video cable system using said second transport mechanism that is compatible with said set top box.

2. (Cancelled without prejudice)

3. (Cancelled without prejudice)

4. (Currently amended) The method of claim 3 further comprising generating a confirmation signal and decoding information that is transmitted from said content provider to said cable system user through said managed network and said internet service provider to said cable system.

5. (Currently amended) The method of claim 1 wherein said act of using a first transport mechanism to transmit said video data through said managed network to a cable system provider further comprises:

using real time protocol as a transport mechanism in an IP managed network to transmit said video data through said IP managed network, ~~with at least a predetermined level of quality of service.~~

6. (Currently amended) The method of claim 1 wherein converting said first transport mechanism to a ~~Second~~-second transport mechanism comprises:

converting an IP transport mechanism to an MPEG transport mechanism.

7. (Original) The method of claim 5 wherein converting said first transport mechanism to a second transport mechanism comprises;

converting an IP transport mechanism to an MPEG transport mechanism.

8. (Original) The method of claim 7 wherein converting said IP transport mechanism to an MPEG transport mechanism further comprises:

separating timing data contained in said real time protocol from content data;

converting said timing data to adaptation information;

placing said adaptation information in adaptation fields of said MPEG transport mechanism;

combining said adaptation fields with corresponding content data.

9. (Currently amended) The method of claim 8 further comprising:
multiplexing said adaptation fields and said content ~~data~~ on to data onto
said MPEG transport to generate an MPEG transport data stream;

digitally modulating said MPEG transport data stream to create a digitally
modulated MPEG transport data stream;

up-converting said digitally modulated MPEG transport data stream to a
selected frequency channel for transmission on said cable system.

10. (Cancelled without prejudice)

11. (Cancelled without prejudice)

12. (Currently amended) A system for delivering video data on-demand from
a content provider to a cable system user coupled to a video cable system comprising;

a content server that is not located at a head end of said video cable
system, and is not operated by said content provider, that provides a listing of video data
available from said content provider and that provides said video data that is delivered to
said head end upon receiving a request;

a managed network coupled to said content server that is capable of
transmitting said video data from said content server to said head end using a first
transport mechanism upon receiving a request from said cable system user ~~to produce~~
that is transmitted to said managed network without going through said head end, said
video data being transmitted by a plurality of first transport data streams that provide a
guaranteed quality of service that is sufficient to view said video data without storing said
video data at said head end;

a translator located at said head end that translates said first transport data
streams to a plurality of second transport data streams on a second transport mechanism
that is compatible with said cable system.

13. (Original) The system of claim 12 wherein said first transport mechanism
is an IP transport mechanism and said second transport mechanism is an MPEG transport
mechanism.

14. (Currently amended) The system of claim 12 further comprising:
a multiplexer that multiplexes said second transport data streams onto said
second transport mechanism.

15. (Currently amended) The system of claim 14 further comprising:
a digital modulator that digitally modulates said second transport data
streams, that have been multiplexed onto said second transport mechanism, onto an rf
carrier signal.

16. (Currently amended) The system of claim 15 further comprising:
~~up-converting~~ an upconverter that upconverts said rf carrier signal that has
been digitally modulated to a predetermined frequency channel or said cable system.

17. (Cancelled without prejudice)